

R.N. WILLEY & SONS INC.)	DEPARTMENTAL
CUMBERLAND COUNTY)	FINDINGS OF FACT AND ORDER
CASCO, MAINE)	AIR EMISSION LICENSE
A-868-71-B-A)	

After review of the air emission license application, staff investigation reports, and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

I. REGISTRATION

A. Introduction

R.N. Willey & Sons Inc. (Willey), located in Casco, Maine was granted Air emission License #A-868-71-A-N on July 24, 2003, permitting the operation of a portable crushed stone and gravel facility.

Willey has requested to amend their license, replacing the 100 hp diesel drive #1 with a larger 300 hp diesel drive which shall now be designated diesel drive #1.

B. Emission Equipment

New Equipment:

<u>Source ID</u>	<u>Max. Capacity</u> <u>MMBtu/hr</u>	<u>Max. Firing Rate</u> <u>gal/hr</u>	<u>Power Output</u> <u>hp</u>
Diesel Drive #1	2.10	15.33	300

C. Application Classification

The modification of a minor source is considered a major modification based on whether or not expected emission increases exceed the "Significant Emission Levels" as given in Maine's Air Regulations. This modification is determined to be a minor modification and has been processed as such.

II. BEST PRACTICAL TREATMENT

In order to receive a license, the applicant must control emissions from each unit to a level considered by the Department to represent Best Practical Treatment (BPT), as defined in Chapter 100 of the Bureau of Air Quality regulations. BPT for new units consists of meeting Best Available Control Technology (BACT).

A. Diesel Drive #1

Diesel drive #1 is utilized to power the rock crusher. Total fuel use in the diesel unit shall not exceed 10,000 gal/year of diesel fuel, based on a 12 month rolling total, with a maximum sulfur content of 0.05% by weight.

Emissions for the diesel unit were based on AP-42 factors, sulfur mass balance and Chapter 103. To meet BACT visible emission requirements, the diesel unit shall not exceed an opacity of 20% on a 6 minute block average basis, except for no more than 2 six minute block averages in a continuous 3-hour period.

B. Annual Emissions and Fuel Limits

1. Willey shall be limited to firing 10,000 gal of diesel fuel with a sulfur content not to exceed 0.05%.
2. Annual emissions from the facility shall be limited to the following:

Total Allowable Licensed Emissions For the Facility
(used to calculate the annual license fee)

Pollutant	Ton/year
PM	0.08
PM ₁₀	0.08
SO ₂	0.04
NO _x	3.03
CO	0.65
VOC	0.24

III. AMBIENT AIR QUALITY ANALYSIS

According to the Maine Regulation Chapter 115, the level of air quality analyses required for a minor new source shall be determined on a case-by-case basis. Based on the information available in the file, and the similarity to existing sources, Maine Ambient Air Quality Standards (MAAQS) will not be violated by this source.

ORDER

The Department hereby grants Air Emission License A-868-71-B-A, subject to the conditions of Air Emission License #A-868-71-A-N and the following conditions:

Specific Conditions

The following shall replace Specific Condition (17) in License #A-868-71-A-N:

(17) Diesel Drive #1

- a. Willey shall not exceed the total use of 10,000 gal/year of diesel fuel (12 month rolling total), with a sulfur content not to exceed 0.05% by weight. Records from the supplier documenting quantity of fuel received and sulfur content shall be maintained. [MEDEP Chapter 115, BACT]
- b. Emissions from diesel drive #1 shall be limited to the following: [MEDEP Chapter 115, BACT]

Diesel Drive #1	lb/hr
PM	0.25
PM ₁₀	0.25
SO ₂	0.11
NO _x	9.26
CO	2.00
VOC	0.74

- c. Visible emissions from the diesel unit shall not exceed 20% opacity on a 6 minute block average, except for no more than 2 six minute block averages in a continuous 3 hour period. [MEDEP Chapter 101]

The following are new Conditions:

- (1) Willey shall keep a copy of this Order on site, and have the operator(s) be familiar with the terms of this Order. [MEDEP Chapter 115]

**R.N. WILLEY & SONS INC.
CUMBERLAND COUNTY
CASCO, MAINE
A-868-71-B-A**

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**DEPARTMENTAL
FINDINGS OF FACT AND ORDER
AIR EMISSION LICENSE**

(2) This order shall expire concurrently with License # A-868-71-A-N. [MEDEP Chapter 115]

DONE AND DATED IN AUGUSTA, MAINE THIS DAY OF , 2004.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: _____
DAWN R. GALLAGHER, COMMISSIONER

PLEASE NOTE THE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: 7/30/2004

Date of application acceptance: 8/5/2004

Date filed with the Board of Environmental Protection: _____

This order prepared by Jonathan Voisine. Bureau of Air Quality.